INSTRUCTIONS FOR

140W Multi-Tool Kit

Stock No.79340 Part No.PT140K

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.

CE

02/2005

GENERAL INFORMATION

This manual has been compiled by Draper Tools and is an integrated part of the product with which it is enclosed and should be kept with it for future references.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation or, before performing any kind of adjustment to the product and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

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DECLARATION OF CONFORMITY

We :
Draper Tools Ltd.,
Hursley Road,
Chandler's Ford,
Eastleigh, Hampshire.
SO53 1YF.
England.

Declare under our sole responsibility that the product:

Stock No:- **79340.**

Part No:- **PT140K.**

Description:- **Multi-Tool Kit.**

To which this declaration relates is in conformity with the following directive(s) 98/37/EC, 73/23/EEC, 89/336/EEC.

With reference to: EN55014-1:2000+A1:2001, EN55014-2:1997+A1:2001, EN61000-3-2:2000, EN61000-3-3:1995+A1:2001, EN50144-2-1:1999, EN50144-2-3:2002, EN50144-1:1998+A1:2002.

J.N. Draper
Managing Director

21/01/2005

SPECIFICATION

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Stock No.	79340
Part No.	PT140K
Voltage	230V/50Hz
Motor	140W
Speed (no load)	15,000-35,000rpm
Collet capacity	5(1.6, 2.0, 2.4, 3.0, and 3.2mm)
Sound pressure level	77.0dB(A)
Sound power level	90.0dB(A)
Vibration level	3.3m/s^2
Weight (Excluding Accessories)	700g

ALWAYS WEAR EYE PROTECTION

GUARANTEE *(Domestic DIY power tools)*

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone: (023) 8026 6355.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee period covering parts/labour is 12 months from the date of purchase. The guarantee is extended to 24 months for parts only. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.

Note: This tool is intended for domestic use only.

POWER SUPPLY

- **Connecting to the Power Supply:**

  To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, non rewireable moulded plug and cable which incorporates a fuse, the value of which is indicated on the pin face of the plug. If the plug is marked with the ASTA symbol and the fuse needs replacing, an ASTA approved BS1362 fuse must be used of the same amp rating. If the plug is not ASTA marked, a fuse with the ASTA symbol, BS Kitemark, or both ASTA and BS Kitemark, of the same amp rating should be used.

- The fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is the same colour as that visible on the pin face of the plug (i.e. red). Fuse covers are available from your Draper Tools stockist.

  If the fitted plug is not suitable, it should be cut off and destroyed. *The end of the cable should now be suitably prepared and the correct type of plug fitted. See below.

- ***WARNING:**

  A plug with bare flexible wires exposed is hazardous if engaged in a live power socket outlet.

- **WARNING: THIS APPLIANCE IS DOUBLE INSULATED.**

- The mains lead is coloured Blue – Neutral, Brown – Live.

- As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue.

  The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.

- **EXTENSION LEAD CHART:**

  Extension lead sizes shown assure a voltage drop of not more than 5% at rated load of tool.

Ampere rating (on Name plate)	3	6	10	13
Extension cable length (Metres)	Wire Size mm^2			
7.5	0.75	0.75	1.0	1.25
15	0.75	0.75	1.0	1.5
22.5	0.75	0.75	1.0	1.5
30	0.75	0.75	1.25	1.5
40	0.75	0.75	1.5	2.5

GENERAL SAFETY INSTRUCTIONS

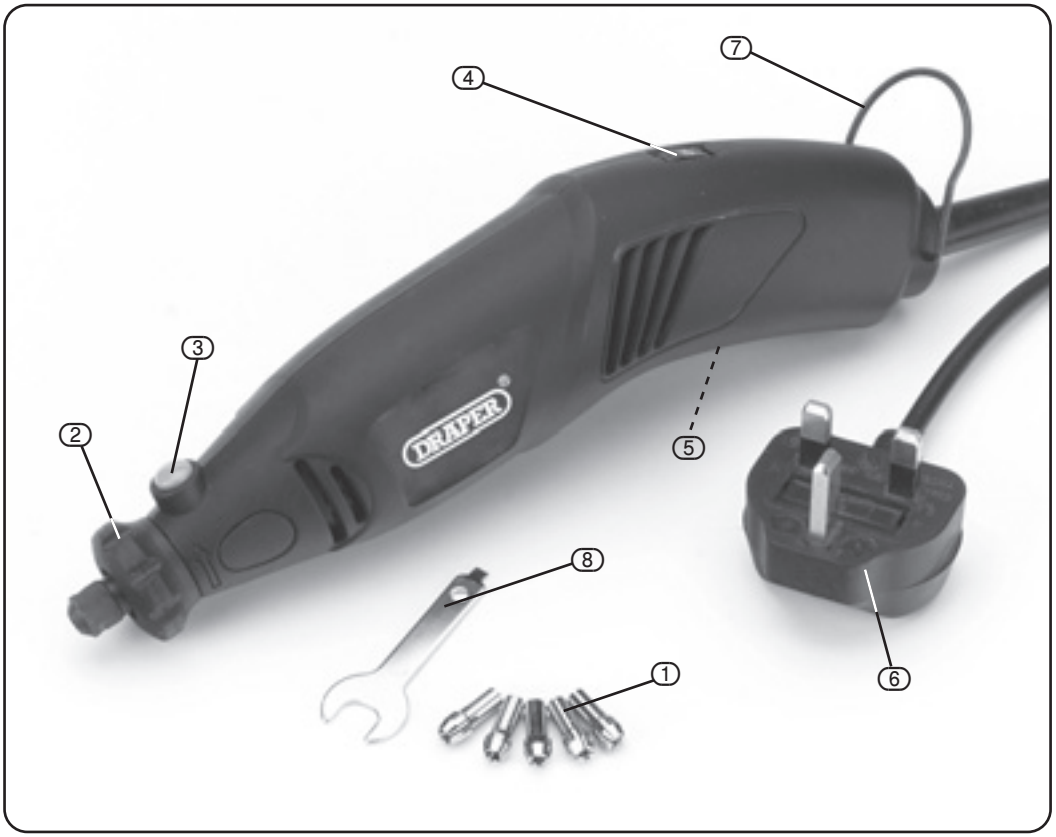
WARNING:
Please read the following instructions carefully, failure to do so could lead to serious personal injury. When using electric tools, basic safety precautions, including the following, should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before operating this product and save these instructions.

IMPORTANT:
Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.

1. **KNOW YOUR POWER TOOL:**
   Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.
2. **KEEP WORK AREA CLEAN:**
   Cluttered areas and benches invite accidents. Floors must not be slippery due to oil or sawdust.
3. **AVOID DANGEROUS ENVIRONMENTS:**
   Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit. Provide adequate space surrounding the work area. Do not use in environments with a potentially explosive atmosphere.
4. **KEEP CHILDREN AWAY:**
   All visitors should be kept a safe distance from work area.
5. **STORED TOOLS:**
   When not being used, all tools should be stored in a dry, locked cupboard and out of the reach of children.
6. **WEAR PROPER CLOTHING:**
   Do not wear loose clothing, neckties or jewellery (rings, wristwatches) to catch in moving parts. NONSLIP footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.
7. **USE SAFETY GOGGLES (Head Protection):**
   Wear CE approved safety goggles at all times. Normal spectacles only have impact resistant lenses, they are NOT safety glasses. Also, use face or dust mask if application is dusty and ear protectors (plugs or muffs) during extended periods of operation.
8. **NOISE LEVELS:**
   Some types of machines may have high noise levels when working. In such cases ear protection must be worn.
9. **VIBRATION LEVELS:**
   Hand held power tools produce different vibration levels. You should always refer to the specifications and relevant Health and Safety guide.
10. **DUST EXTRACTION:**
    If your tool is fitted with a dust extraction fitting, always ensure that it is connected and being used with a dust extractor. Vacuum cleaners can be used if suitable for the material being extracted.
11. **PROTECT YOURSELF FROM ELECTRIC SHOCK:**
    When working with power tools, avoid contact with any earthed items (e.g. pipes, radiators, hobs and refrigerators, etc.). If you are using a power tool in extreme conditions (e.g. high humidity or generating metal dust), always use an RCD (residual current device) at the power socket.
12. **STAY ALERT:**
    Always watch what you are doing and use common sense. Do not operate a power tool when you are tired or under the influence of alcohol or drugs.
13. **WHEN WORKING OUT OF DOORS:**
    Only use extension leads designed for that purpose.
14. **ACCESS TO MAINS SOCKET:**
    If a stationary machine is fitted with a moulded plug and cable, the machine should not be positioned so that access to the mains socket is restricted.
15. **DISCONNECT POWER TO THE TOOL:**
    When not in use, before servicing and when changing accessories such as cutters, etc.
16. **AVOID ACCIDENTAL STARTING:**
    Make sure the switch is in the OFF position before plugging the machine into the power supply.
17. **NEVER LEAVE MACHINE RUNNING UNATTENDED:**
    Turn power off. Do not leave machine until it comes to a complete stop.
18. **DO NOT ABUSE THE CORD:**
    Never carry the tool by the power cable or pull it from the socket. Keep the power cable away from heat, oil and sharp edges. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid hazard.
19. **NEVER STAND ON TOOL:**
    Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted. Do not store materials above or near the tool, so that it is necessary to stand on the tool to reach them.
20. **CHECK DAMAGED PARTS:**
    Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, free running of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be repaired properly or replaced by an authorized service centre unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorized service facility. Do not use the tool if the switch does not turn it on and off.
21. **KEEP GUARDS IN PLACE:**
    And in working order.
22. **MAINTAIN TOOLS WITH CARE:**
    Keep tools sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories. All extension cables must be checked at regular intervals and replaced if damaged. Always keep the hand grips on the tool clean, dry and free of oil and grease.
23. **USE RECOMMENDED ACCESSORIES:**
    Consult the owners manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.
24. **REMOVE ADJUSTING KEYS AND WRENCHES:**
    Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
25. **SECURE WORK:**
    Use clamps or a vice to hold work. This frees both hands to operate the tool.
26. **DO NOT OVERREACH:**
    Keep proper footing and balance at all times.
27. **USE RIGHT TOOL:**
    Do not force the tool or attachment to do a job for which it was not designed.
28. **DO NOT FORCE TOOL:**
    It will do the job better and safer at the rate for which it was designed.
29. **DIRECTION OF FEED:**
    Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
30. **WHEN DRILLING OR SCREWING INTO WALLS:**
    Always make sure there is no danger of hitting any hidden power cables, water or gas pipes in the wall.
31. **HAVE YOUR TOOL REPAIRED BY A QUALIFIED PERSON:**
    This electric tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

IMPORTANT NOTE:
Residual Risk. Although the safety instructions and operating manuals for our tools contain extensive instructions on safe working with power tools, every power tool involves a certain residual risk which can not be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution!

GETTING TO KNOW YOUR MULTI-TOOL KIT

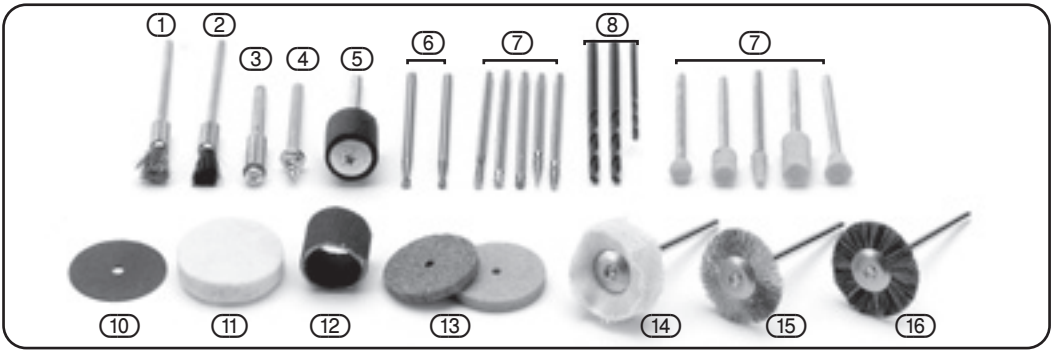


1. Collets.
2. Collar.
3. Spindle Lock.
4. Variable Speed Dial.
5. On/Off Switch.
6. BS Moulded Plug and Cable.
7. Hook.
8. Collet Spanner/ Plain Slot Screwdriver.

- **UNPACKING:** After removing the packing material, make sure the product is in perfect condition and that there are no visible damaged parts. If in doubt, do not use the multi-tool kit and contact the dealer from whom it was purchased.

  The packaging materials (plastic bags, polystyrene, etc.), must be disposed of in an appropriate refuse collection container. These materials must not be left within the reach of children as they are potential sources of danger.

GETTING TO KNOW YOUR ACCESSORIES



KEY No.	DESCRIPTION	QUANTITY
1	Wire Brush.	1
2	Bristle Brush.	1
3	Holder for cutting/sanding/grinding discs.	1
4	Holder for felt polishing wheel.	1
5	Holder for sanding drum (Large).	1
6	Milling Point.	2
7	Diamond Grinding points.	5
8	HSS Drill Bits.	3
9	Aluminium Oxide Grinding points.	5
10	Cutting Disc 0.64mm.	10
11	Felt Polishing Wheels (Large).	5
12	Sanding Drums (Large).	10
13	Grinding Wheel.	2
14	Cloth Polishing Wheel.	1
15	Brass Wheel.	1
16	Bristle Wheel.	1
*	Spanner/Plain Slot Screwdriver.	1
**	Collets	5

- **NOTE:** To ensure safe use do not use the following accessories faster than 10,000rpm (speed 1): Grinding Stones, Sanding Discs, Cutting Discs, Soft 'Bristle' Brushes and Wire Brushes.

  When you purchase additional accessories check the safe working speed is compatible with the tool:
  Speed 1 - 10,000rpm +/-10%, **Speed 2 -** 13,000rpm +/-10%, **Speed 3 -** 23,000rpm +/-10%,, **Speed 4 -** 29,000rpm +/-10%, **Speed 5 -** 32,000rpm +/-10%, **Speed 6 -** 35,000rpm +/-10%,

ASSEMBLY

- **SWITCHING ON AND OFF (FIG.1):**
  Press switch (A) into the 'I' position. This will start the machine. Press switch to the 'O' position - this will stop the machine.
  Using the variable speed dial (B) will enable you to alter the speed of the collet chuck:

  Position 1 - SLOW
  Position 3 - MEDIUM
  Position 6 - FAST

  Select the correct speed for the work and type of bit you are using.

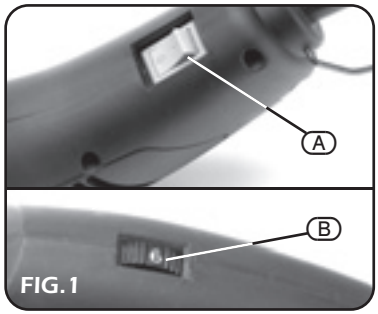


FIG.1

- **APPLICATIONS:**
  Your multi-tool can be used for drilling, grinding, polishing, milling and brushing. Other jobs like engraving, cutting and removing rust are also possible. It can be used on most wood, metal, glass and ceramics.
  It is a good idea to practice on a scrap piece of material. Best results are achieved by an even speed and pressure (not too hard). Use lower speeds for larger tools and higher speeds for smaller tools.

FIG.2

- **HOLDING THE TOOL (FIG.2 & 3):**
  For jobs such as milling or engraving where precision is required, hold the multi-tool like a pen.
  For heavier work like cutting or grinding hold the multi-tool in the palm of your hand.

FIG.3

- **CHANGING BITS (FIG.4):**
- **NOTE:** Remove the plug from the socket before carrying out adjustment, servicing or maintenance.
  Choose from the five collets provided, the appropriate size for the bit shank. If the size is not known, insert the bit into the collet. The collet which offers a machine fit to the bit is the correct one to use. Do not force the bit into a collet.
  Press spindle locking button (C) to stop the spindle from rotating. Using the spanner, loosen the collet nut (D).
  Place the collet into the spindle and loosely replace the nut.
  Slide in the bit allowing approx. 15-20mm overhang, and tighten the nut.
- **NOTE:** Do not over tighten the collet nut (D).

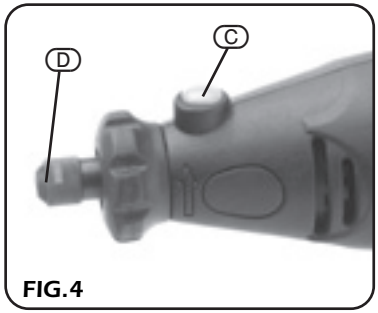
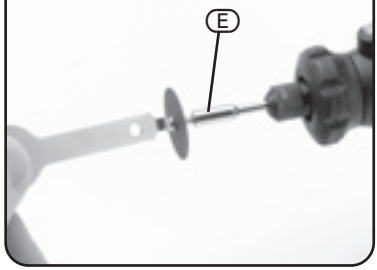


FIG.4

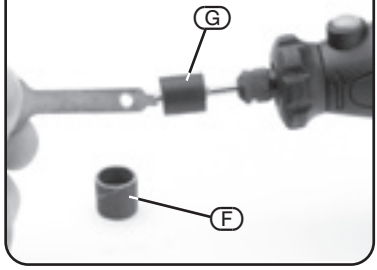
- **FITTING A CUTTING/SANDING DISC (FIG.5):**
  With the disc holder (E) in the chuck, remove the screw using the plain slot screwdriver (incorporated in the spanner handle tip). Remove one of the spacing washers from the end. Insert the screw through the cutting disc, the washer and secure into the holder (Do not over tighten).

FIG.5



- **FITTING THE SANDING DRUMS (FIG.6):**
  To fit a drum (F), firstly loosen the small screw in the top of the holder (G). This will allow the rubber to relax. Slide the sanding drum onto the holder. To secure simply tighten the screw and the rubber drum will swell, gripping the drum. (Do not over tighten).

FIG.6



CARE AND MAINTENANCE

- **NOTE:** Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

  The Multi-Tool does not require any special maintenance. Regularly clean/vacuum the ventilation slots. Use only a mild cleaner and a damp cloth to clean the tool.

OPTIONAL ACCESSORIES

Stock No.	Part No.	Description	Packed Qty
63100	APT41	Wire Brush	1
63101	APT42	Bristle Brush	1
63082	APT43	Holder for Cutting/Sanding/Grinding Disc	1
63094	APT44	Holder for Felt Wheels	1
63096	APT46	Milling Point	1
63097	APT47	Milling Point	1
63089	APT48	Diamond Grinding Point	1
63092	APT49	Diamond Grinding Point	1
63090	APT50	Diamond Grinding Point	1
63088	APT51	Diamond Grinding Point	1
63091	APT52	Diamond Grinding Point	1
63073	APT57	HSS Drill Bit 2.0mm	1
63087	APT59	Grinding Point 80 Grit	1
63083	APT60	Grinding Point 80 Grit	1
63084	APT61	Grinding Point 80 Grit	1
63085	APT62	Grinding Point 80 Grit	1
63086	APT63	Grinding Point 80 Grit	1
63078	APT66	Cutting Disc 120 Grit 0.64mm	30
63093	APT67	Felt Polishing Wheel 24mmØ	3
63095	APT68	Cloth Polishing Wheel	1
63076	APT69	Grinding Wheel 80 Grit	6
63098	APT71	Brass Wheel	1
63099	APT72	Bristle Wheel	1
86847	APT94	Sanding Drum 80 Grit (Large)	6
87366	APT102	Sanding Drum 150 Grit (Large)	6
86850	APT95	Holder for Sanding Drums (Large)	1
86851	APT96	1.6mm Collet	1
86852	APT98	2.0mm Collet	1
86853	APT99	2.4mm Collet	1
86854	APT99	3.0mm Collet	1
86855	APT100	3.2mm Collet	1
86856	APT101	Spanner/Plain Slot screwdriver	1

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YOUR DRAPER STOCKIST

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